

5/15/85  
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

15 MAY 1985

US EPA RECORDS CENTER REGION 5



534160

DATE: Diamond Shamrock  
SUBJECT: Painsville, Ohio Site Inspection

FROM: Dan Hopkins, *DH*  
Remedial Project Manager

TO: File thru Don Bruce *DB*

On April 24, 1985, I inspected a 160 acre capped site owned by Diamond Shamrock Company. The site was once a waste basin where the company deposited calcium chloride and chromate wastes from its soda ash and chrome chemicals plants. The site was covered with flyash and clay followed by several inches of topsoil which was seeded. Several areas of standing run-off water have been identified in reports from the company. The purpose of this inspection was primarily to see the extent and condition of these areas.

I met Tom Stang, Paul Dugas, and Dave Morgan of Diamond Shamrock at the Diamond Shamrock Chemical Co. research facilities at 7528 Auburn Road in Painsville, Ohio. We drove to the site and began an inspection at the northwest corner of the site. The route that Stang, Dugas and I walked is outlined on the attached site sketch in blue. Morgan walked the north boundary of the site and followed the route marked on the sketch for "inspection 1" (arrows with one slash). Photo #1 (of the attached fifty-one photographs) was taken at the northwest corner of the site facing south. Photos #1 through #5 were taken from the same location. These photographs pan the northwest corner and can be superimposed on each other to show the whole northwest corner. In this area vegetation is sparse. It appeared to me that lack of topsoil in this area is primarily responsible for the lack of vegetation here. Soil erosion was apparent immediately west of this location. The erosion did not appear to be severe.

The vegetation on the cap beyond the northwest corner was more substantial.

The first area where evidence of standing water was apparent is shown in photos #12-15. The location of this area is designated as area #3 on the sketch. The area is about 53 yards long with an average width of 8 feet. the maximum width is about 15 feet.

The area identified as area #4 on the sketch is shown in photo #16. This area is about 35 yards long with an average width of 4 feet. It appeared that that area #4 may have extended an additional thirty yards (northeast along the dike) beyond piezometer #2 as shown in photos #16 and 17. Piezometer #2 is shown in the lower left corner of photo #17.

Photos #18 through #22 can be superimposed on each other to given a view of the northeast portion of the site.

Photo #24 shows the location of area #5 which is nearly circular and has a diameter of about 10 feet.

Photos #27 and #28 show area #6. The area is about 45 yards long, 23 yards wide and sparsely vegetated. The topsoil in much of this area appears very thin.

Photos #29 thru #31 show area #7. This area is approximately circular with a diameter of about 19 yards.

Photos #32 and #33 show area #8. Area #8 is about 20 feet in diameter. It was my impression that standing water may have been once present to a depth of 4 to 6 inches. West of the site high point (indicated on the sketch with an "X") the site surface slopes down in a south-east direction toward a drainage pipe at the south most tip of the site. East of the site high point the surface slopes toward the east border of the site. Areas #3, #4, and #5 lie in a portion of the site where runoff divides between the east and west. The surface slope in this area is less pronounced than either further east or west.

The northwest portion of the site slopes down to the east and south. Runoff should drain through the drainage pipe on the south most tip of the site. In the vicinity of areas #7, #8, and #9, a drainage valley is formed by the two sloping surfaces previously described. What appeared to be a seep was found at the south most portion of the site. Photos #38 and #39 show the location of the seep. The seep location is also shown on the site sketch. Leachate from this seep flows directly into the Grand River. I estimate the surface leachate flow to be between one and five gallons per minute.

Another seep may be located at the pipe bridge near the dirt road as shown on Photos #36 and #37.

WT  
(water tower)

Inspector 1  
Inspector 2

WS (west stack) Coke Plant ES (east stack)

70

FAIRPORT NURSERY ROAD

Dike Top

2 WASTE LAKE TRACT

RIVER

GRAND

EXPLANATION:

- MONITOR WELL
- BORING LOCATION (HOLE PLUGGED)
- GRAVEL BASE ROAD (APPROX. LOCATION)
- DIRT TRAIL (APPROX. LOCATION)
- APPROX. LOCATION OF OLD OXBOW
- PROPERTY LINE
- MANHOLE

Key  
direction of runoff flow

P1 PROPOSED PIEZOMETERS

P8 PROPOSED MONITOR WELLS

X Marker Posts MP1 - MP4

X Mark Point, w/compass bearings

North west corner  
(sparsely vegetated)

valley

ridge

Site High Point P2

APPROXIMATE AREA OF OLD WASTE POND

location of drainage pipe

seep

Pipe bridge

5/15

Don Please

return to me

Thanks

Blue  
copy is  
yours

~~Don~~

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5/15/85  
A 2

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*Containment  
Run Off*

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(water tower)

Inspector 1  
Inspector 2

WS (west stack) Lake Plant ES (east stack)

70

FAIRPORT NURSURY ROAD

Dike Top

ridge

North west corner  
(sparsely vegetated)

2 WASTE LAKE TRACT

Site High Point A2

APPROXIMATE AREA OF OLD WASTE POND

RIVER

GRAND

Key  
direction of runoff flow

EXPLANATION:

- MONITOR WELL
- BORING LOCATION (HOLE PLUGGED)
- GRAVEL BASE ROAD (APPROX LOCATION)
- DIRT TRAIL (APPROX LOCATION)
- APPROX. LOCATION OF OLD OXBOW
- PROPERTY LINE
- MANH

- PROPOSED PILOMETERS
- PROPOSED MONITOR WELLS
- Marker Posts MP1 - MP4
- Mark Point, w/compass bearings

Pipe bridge

seep

location of drainage pipe

area 2

MP2

area 3

area 4

area 5

area 6

area 7

area 8

area 9

OP-1

Dike Top

MP2

RIVER

GRAND

Key  
direction of runoff flow

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Pipe bridge

seep

location of drainage pipe

area 2

MP2

area 3

area 4

area 5

area 6

area 7

area 8

area 9

OP-1

Dike Top

MP2

RIVER

GRAND